



Edexcel – Video list

Double Award

Double Award includes all of the [Entry Level](#) videos and, in addition, the topics below...

ENTRY LEVEL →

Biology



1. Key Concepts in biology

Orders of magnitude and standard form
Enzymes
Core practical investigating enzymes and calculating the rate of reaction
Core practical: food tests
Enzymes in digestion
Core practical: osmosis in potatoes
Diffusion and active transport

2. Cells and control

[No additional videos]

3. Genetics

Asexual and sexual reproduction and meiosis
Fractions, Ratio, Proportion and Probability

4. Natural Selection and genetic modification

Natural selection
Human evolution
Classification and evolutionary trees

5. Health, disease and the development of medicines

[No additional videos]

6. Plant Structures and their functions

Limiting factors
Investigating photosynthesis
Photosynthesis
Transpiration
Plant tissues

7. Animal coordination, control and homeostasis

The endocrine system
Adrenalin and thyroxine
The menstrual cycle higher
Thermoregulation
Controlling blood glucose levels

8. Exchange and transport in animals

Diffusion
The circulatory system
Respiration

9. Ecosystems and material cycles

Interdependence
Core practical: sampling in ecosystems
Cycling in ecosystems
Biodiversity

Chemistry



1. Key concepts in chemistry

Developing the atomic model
Electronic Arrangements
Covalent bonding
Isotopes and RAM
Relative Formula Mass
Reacting masses
The mole
Metallic bonding
Concentration in g/dm³

2. States of matter and mixtures

Purity
Chromatography

3. Chemical changes

Acids, alkalis and neutralisation
Strong and weak acids
Electrolysis of molten salts
Electrolysis of aqueous salts
Solubility and Making Insoluble Salts
Investigating neutralisation
Electrolysis of copper sulfate

4. Extracting metals and equilibria

The reactivity of metals
Biological extraction of metals
Reversible reactions and equilibrium
Factors affecting equilibrium
Extraction of Aluminium
Displacement reactions

5. Separate chemistry 1

[None]

6. Groups in the periodic table

Group 1 - The Alkali Metals
Group 7 - Halogens

7. Rates of reaction and energy changes

Reaction profile diagrams
Measuring rates of reaction
Interpreting rate graphs
Collision theory and catalysts
Calculating Energy Changes

8. Fuels and Earth science

Cracking
Combustion of hydrocarbons
The greenhouse effect and global warming
Pollution from combustion

Physics



1. Key concepts of physics

[No additional videos]

2. Motion and forces

Scalars and vectors
Distance-time graphs
Acceleration
Velocity-time graphs
Resultant forces
Gravity
Newton's laws of motion
Falling objects
Momentum 1
Momentum 2

3. Conservation of energy

Energy conservation and efficiency

4. Waves

Refraction
Waves meeting boundaries

5. Light & the electromagnetic spectrum

[No additional videos]

6. Radioactivity

Irradiation and radioactive contamination
Background radiation

7. Astronomy

[None]

8. Energy - forces doing work

Forces, motion and work done

9. Forces and their effects

Components of a force and forces in equilibrium

10. Electricity and circuits

Resistors
Series and parallel circuits
Investigating resistance in circuits
Energy transfer and power in circuits

11. Static electricity

[None]

12. Magnetism and the motor effect

[No additional videos]

13. Electromagnetic induction

Electromagnetic induction
Transformers
The National Grid
Transformers and power transmission

14. Particle model

Specific heat capacity and specific latent heat
Pressure in gases

15. Forces and matter

Forces and elasticity